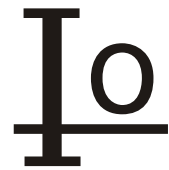


# SK32 THRU SK310

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



## FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.1066 grams
- \* Lead Free Finish/RoHS Compliant

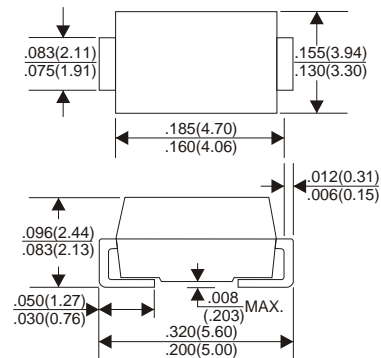
## VOLTAGE RANGE

20 to 100 Volts

## CURRENT

3.0 Ampere

### DO-214AA(SMB)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER  | SK32       | SK33 | SK34 | SK35       | SK36 | SK38 | SK310 | UNITS |
|--|------------|------|------|------------|------|------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage   | 20         | 30   | 40   | 50         | 60   | 80   | 100   | V     |
| Maximum RMS Voltage  | 14         | 21   | 28   | 35         | 42   | 56   | 70    | V     |
| Maximum DC Blocking Voltage  | 20         | 30   | 40   | 50         | 60   | 80   | 100   | V     |
| Maximum Average Forward Rectified Current  | 3.0        |      |      |            |      |      |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 100        |      |      |            |      |      |       | A     |
| Maximum Instantaneous Forward Voltage at 3.0A  | 0.55       |      | 0.70 |            | 0.85 |      |       | V     |
| Maximum DC Reverse Current Ta=25°C   | 500        |      |      |            |      |      |       | uA    |
| at Rated DC Blocking Voltage Ta=100°C  | 20         |      |      |            |      |      |       | mA    |
| Typical Junction Capacitance (Note1)   | 300        |      |      | 250        |      |      |       | pF    |
| Typical Thermal Resistance R JA (Note 2)   | 20         |      |      | 10         |      |      |       | °C/W  |
| Operating Temperature Range Tj   | -65 — +125 |      |      | -65 — +150 |      |      |       | °C    |
| Storage Temperature Range TSTG   | -65 — +150 |      |      |            |      |      |       | °C    |

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

# RATING AND CHARACTERISTIC CURVES (SK32 THRU SK310)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

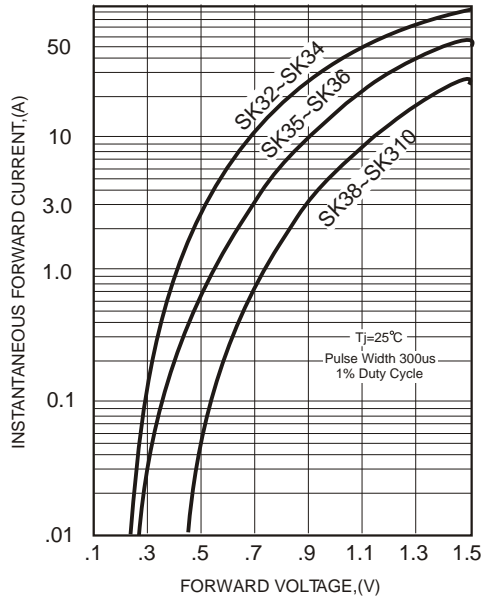


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

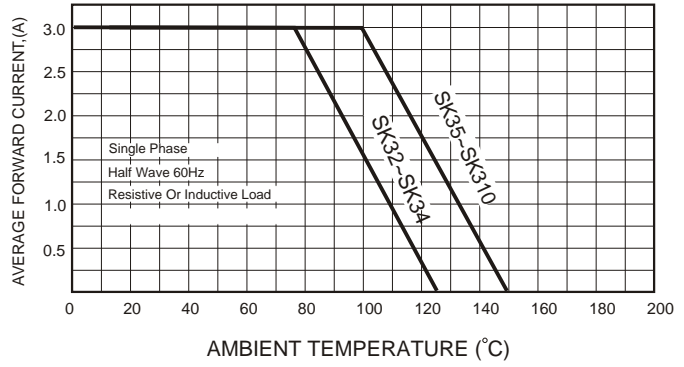


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

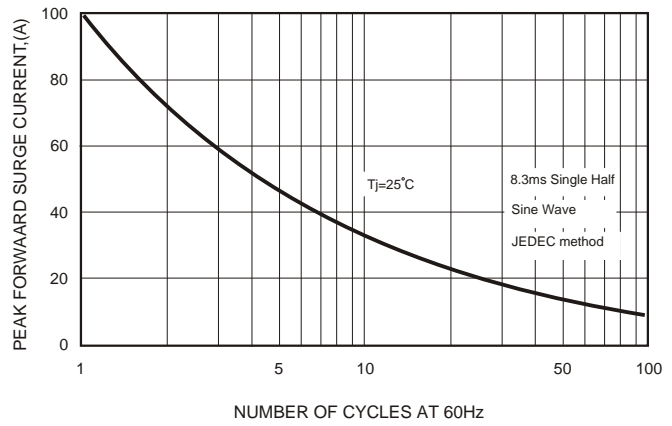


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

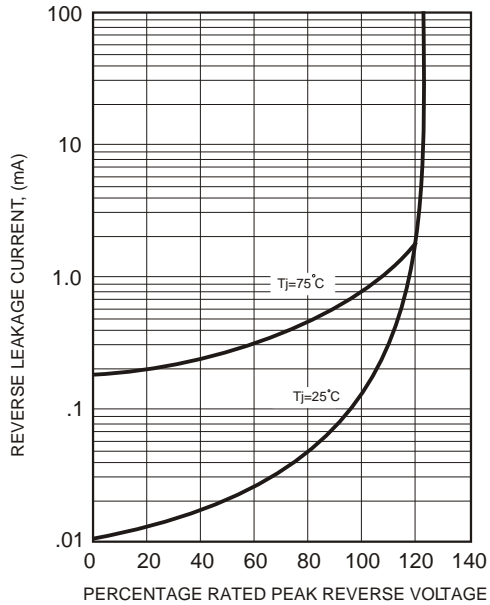


FIG.5-TYPICAL JUNCTION CAPACITANCE

